PTO-1590 (8-01)

48527 Access DB#____

SEARCH REQUEST FORM

Scientific and Technical Information Center

Paguagtar's Full Name: PK 4440	STIC)	Evaminer # . 76557 Date: 6/7/07								
Requester's Full Name: RICHARD SCHWIZERSTIC Examiner #: 76557 Date: 6/7/02 Art Unit: 1635 Phone Number 30 6 - 5441 Serial Number: 64/580, 463										
Mail Box and Bldg/Room Location: Mail Box and Bldg/Room Location: All International Preferred (circle): PAPER DISK E-MAIL All International Preferred (ci										
If mor than one search is submitted, please prioritize searches in order of need.										
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.										
Title of Invention: CYTOFECTIN DIMERS										
Inventors (please provide full names):	CARL J'W	HEELER								
Earliest Priority Filing Date:	5/28/99									
	·	(parent, child, divisional, or issued patent numbers) along with the								
		ION OF AN EARLIER REQUEST & I								
SUBMITTED ON 3/12/0										
PLEASE SEARCH F	FOR THE FOLLO	wine STRUCTURE								
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WHEREIN Ra	comprises =>	NRIZ-C-NRIS-RE-NRIS								
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		bependently H, C. to Cio alkyl, Cito Cio subidalkyl; Co subidalkyl;								
•	•	- Cio alkyl or Ci-Cio subdalkyli								
~16~	**************************************	**************************************								
STAFF USE ONLY	Type of Search	Vendors and cost where applicable								
Searcher: Paul Schulwitz	NA Sequence (#)	STN								
Searcher Phone #:	AA Sequence (#)	Dialog								
Searcher Location:	Structure (#)	Questel/Orbit								
Date Searcher Picked Up: 6/12	Bibliographic	Dr.Link								
Searcher Prep & Review Time: 20*	Litigation	Sequence Systems								
Clerical Prep Time:	Patent Family	WWW/Internet								
Online Time:	Other	Other (specify)								

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                 SCR 2040
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 @21 @19 20
                             14
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                             G1
                                                   G1
                     G1-~ CH2-CH~Ak~ G3~(G2) G3~Ak~ CH~ CH2-G1
                                              9 10 11 12
                               5
                                     6
                                            8
  NH~Ak
              Ak \sim N \sim Ak
              24 @25 26
 @22 23
                                               broadly defined as 1-20 atoms of any kind
 VAR G1=0/19/21
REP G2=(1-20) A
 VAR G3=NH2/22/25
 NODE ATTRIBUTES:
 CONNECT IS E2 RC AT
                        5
 CONNECT IS E2
               RC AT
                        9
                RC AT
 CONNECT IS E1
                       23
 CONNECT IS E1
                RC AT
                       24
 CONNECT IS E1
                RC AT
                       26
 DEFAULT MLEVEL IS ATOM
 GGCAT
         IS LIN
                 SAT
 GGCAT
         IS LIN
                 SAT
                      ΑT
 DEFAULT ECLEVEL IS LIMITED
 GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 21
 STEREO ATTRIBUTES: NONE
 L11
        4175783 SEA FILE=REGISTRY ABB=ON PLU=ON N>3
         2729133 SEA FILE=REGISTRY ABB=ON PLU=ON L11 AND O>2
 L12
              26 SEA FILE=REGISTRY SUB=L12 SSS FUL L3 AND L9
 L14
 L15
               9 SEA FILE=HCAPLUS ABB=ON PLU=ON L14
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ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2002 ACS
L15
     2000:861646 HCAPLUS
AN
     134:21482
DN
ΤI
    Cytofectin dimers and methods of use thereof
ΙN
    Wheeler, Carl J.
PA
    Vical, Inc., USA
     PCT Int. Appl., 50 pp.
SO
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 1
                      KIND
                                            APPLICATION NO.
     PATENT NO.
                            DATE
                                                             DATE
PΙ
     WO 2000073263
                       A1
                            20001207
                                            WO 2000-US14676 20000526
         W: CA, JP, US
         RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
             PT, SE
                                            EP 2000-939373
     EP 1183231
                       Α1
                            20020306
                                                             20000526
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
                            19990528
PRAI US 1999-136472P
                       Ρ
     WO 2000-US14676
                       W
                            20000526
    MARPAT 134:21482
OS
GΙ
                                      Me CH2O(CH2)13Me
Me(CH2)13OCH2 Me
Me (CH2) 13OCHCH2N (CH2) 3CONHCHCONH (CH2) 3NCH2CHO (CH2) 13Me
                          CH2
```

AB A compn. is provided comprising a novel cationic lipid compd. having hydrophobic tails and two quaternary ammonium headgroups bridged by a linker. The compn. is useful as a cytofectin for facilitating delivery and transfection of biol. active agents, particularly anionic bioactive agents such as DNA, into cells. The compn. is useful also as an adjuvant for enhancing the humoral immune response of a vertebrate to an immunogen, esp. an immunogen encoded by a polynucleotide-based vaccine. In certain preferred embodiments, the cationic lipid compd. is a dimer contg. quaternary ammonium headgroups bridged by a linker having DNA and/or cell receptor binding affinity, such as a polypeptide or polyamine. Also disclosed is an immunogenic compn. comprising an immunogen and the compn. of the present invention. I was prepd. as an example compd.

Br-

IT 310445-41-1P 310445-42-2P 310445-43-3P 310445-44-4P 310445-46-6P

RL: BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)

(cationic lipids prepn. as cytofectin for delivery and transfection of

biol. agents)

RN 310445-41-1 HCAPLUS

CN 5,7,12,14-Tetraazaoctadecane-1,18-diaminium, N,N'-bis[2,3-bis(tetradecyloxy)propyl]-N,N,N',N'-tetramethyl-6,13-dioxo-(9CI) (CAINDEX NAME)

PAGE 1-B

RN 310445-42-2 HCAPLUS

CN 4,6,13,15-Tetraazaoctadecane-1,18-diaminium, N,N'-bis[2,3-bis(tetradecyloxy)propyl]-N,N,N',N'-tetramethyl-5,14-dioxo-(9CI) (CA INDEX NAME)

PAGE 1-B

RN 310445-43-3 HCAPLUS

CN 4,6,11,13-Tetraazahexadecane-1,16-diaminium, N,N'-bis[2,3-bis(tetradecyloxy)propyl]-N,N,N',N'-tetramethyl-5,12-dioxo-(9CI) (CA INDEX NAME)

RN 310445-44-4 HCAPLUS

CN 16-Oxa-4,7-diaza-12-azoniatriacontan-1-aminium, N-[2,3-bis(tetradecyloxy)propyl]-6-(lH-indol-3-ylmethyl)-N,N,12,12-tetramethyl-5,8-dioxo-14-(tetradecyloxy)-, dibromide, (6S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 Br-

RN 310445-46-6 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-[3-[[4-[[2,3-bis(tetradecyloxy)propyl]dimethylammonio]-1-oxobutyl]amino]propyl]-.omega.[3-[[4-[[2,3-bis(tetradecyloxy)propyl]dimethylammonio]-1oxobutyl]amino]propoxy]-, dibromide (9CI) (CA INDEX NAME)

●2 Br-

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

Me

- L15 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2002 ACS
- AN 1999:96214 HCAPLUS
- DN 130:169756
- TI Inhibition of pulp and paper yellowing using nitroxides and other co-additives
- IN Seltzer, Raymond; Wolf, Jean-Pierre; Heitner, Cyril; Schmidt, John Alois;
 Mcgarry, Peter Francis; Cunkle, Glen Thomas; Nelson, Randall Bruce
- PA Ciba Specialty Chemicals Holding Inc., Switz.
- SO PCT Int. Appl., 195 pp. CODEN: PIXXD2
- DT Patent
- LA English

FAN.	FAN.CNT 1																	
	PAT	rent :	NO.	O. KIND DATE						CATI		o. :	DATE					
PI	WO	9905	108				1999	0204						1	1998	0714		
		W:	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,
			DK,	EE,	ES,	FI,	GB,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IS,	JP,	ΚE,	KG,
			KP,	KR,	KZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,
			NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TR,	TT,
			UA,	UG,	UZ,	VN,	YU,	ZW,	AM,	AZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM	
		RW:	GH,	GM,	KE,	LS,	MW,	SD,	SZ,	UG,	ZW,	AT,	BE,	CH,	CY,	DE,	DK,	ES,
			FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,
			CM,	GΑ,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG						
	ΑU	9890	660		Al 19990216			A	U 19	98-9	0660		1998	0714				
	ΑU	7235	02		B2 20000831													
	ΕP	1000	032		Α	1	2000	0517		E	P 19	98-9	4255	6	1998	0714		
		R:	BE,	CH,	DE,	ES,	FR,	GB,	IT,	LI,	SE,	FI						
	BR	9811	525		Α		2000	0905		B:	R 19	98-1	1525		1998	0714		
		2001											0410		1998	0714		
		9806								\mathbf{z}	A 19	98-6	521		1998	0722		
PRAI	US	1997	-534	89P	P		1997	0723										

US 1997-54968P P 19970807 WO 1998-EP4381 W 19980714

OS MARPAT 130:169756

AB Pulps or papers, esp. semichem. or thermomech. pulps or papers, which still contain lignin, have enhanced resistance to yellowing when they contain an effective stabilizing amt. of a hindered amine compd. which preferably is a nitroxide, a hydroxylamine or an ammonium salt thereof. The yellowing resistance is often further enhanced by the presence of one or more co-additives selected from the group consisting of the UV absorbers, the polymeric inhibitors, the nitrones, the fluorescent whitening agents, metal chelating agents, S-contg. stabilizers, metal salts and diene compds. Combinations of nitroxides, hydroxylamines or their salts, benzotriazole or benzophenone UV absorbers and a metal chelating agent are particularly effective. Selected derivs. of 1-oxyl-2,2,6,6-tetramethylpiperidin-4-ol and selected hydroxylamine salts are novel compds. and are surprisingly effective for this purpose.

IT 220410-91-3P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)

(inhibition of pulp and paper yellowing using nitroxides and other coadditives)

RN 220410-91-3 HCAPLUS

CN 1-Piperidinyloxy, 4,4'-[1,6-hexanediylbis[(dimethyliminio)(2-hydroxy-3,1-propanediyl)oxy]]bis[2,2,6,6-tetramethyl-, dibromide (9CI) (CA INDEX NAME)

●2 Br-

PAGE 1-B

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RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2002 ACS

AN 1992:511153 HCAPLUS

DN 117:111153

TI Preparation of cationic amides as demulsifying agents for petroleum

refining

IN Chen, Robert G.; Son, Adelina J.

PA Baker Hughes Inc., USA

SO U.S., 6 pp. GODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI US 5117058 A 19920526 US 1990-612659 19901109

OS MARPAT 117:111153

AB R1(CONHR2NR3R3R4+)22X- (R1 = CnH2n alkylene, CnHn alkenylene, phenylene; n = 0-10; R2 = CmH2m; m = 1-4; R3 = Me, Et, Pr; R4, X- = fragments of quaternizing agent) were prepd. as demulsifying agents for petroleum refining. Thus, fumaric acid was amidated by dimethylaminopropylamine at 150-160.degree. for 2 h and the product quaternized in situ by reaction with epichlorohydrin at 60-100.degree. for 2 h to give trans-HOCH2CHOHCH2NMe2(CH2)3NHCOCH:CHCONH(CH2)3NMe2CH2CHOHCH2OH.cntdot.2Cl (I). A no. of tests using I as a demulsifying agent were performed.

IT 143193-86-6P 143193-87-7P 143193-88-8P 143193-89-9P 143193-90-2P 143193-91-3P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of, as demulsifying agent for petroleum refining)

RN 143193-86-6 HCAPLUS

CN 1-Propanaminium, 3,3'-[(1,4-dioxo-2-butene-1,4-diyl)diimino]bis[N-(2,3-dihydroxypropyl)-N,N-dimethyl-, dichloride (9CI) (CA INDEX NAME)

●2 Cl-

PAGE 1-B

RN 143193-87-7 HCAPLUS

CN 1-Propanaminium, 3,3'-[(1,4-dioxo-1,4-butanediyl)diimino]bis[N-(2,3-dihydroxypropyl)-N,N-dimethyl-, dichloride (9CI) (CA INDEX NAME)

●2 C1-

PAGE 1-B

143193-88-8 HCAPLUS RN

1-Propanaminium, 3,3'-[(1,6-dioxo-1,6-hexanediyl)diimino]bis[N-(2,3-CN dihydroxypropyl)-N,N-dimethyl-, dichloride (9CI) (CA INDEX NAME)

Cl-

PAGE 1-B

143193-89-9 HCAPLUS RN

1-Propanaminium, 3,3'-[(1,8-dioxo-1,8-octanediyl)diimino]bis[N-(2,3-CN dihydroxypropyl)-N,N-dimethyl-, dichloride (9CI) (CA INDEX NAME)

●2 C1-

PAGE 1-B

RN 143193-90-2 HCAPLUS

CN 1-Propanaminium, 3,3'-[(1,10-dioxo-1,10-decanediyl)diimino]bis[N-(2,3-dihydroxypropyl)-N,N-dimethyl-, dichloride (9CI) (CA INDEX NAME)

●2 C1-

PAGE 1-B

RN 143193-91-3 HCAPLUS

CN 1-Propanaminium, 3,3'-[(1,12-dioxo-1,12-dodecanediyl)diimino]bis[N-(2,3-dihydroxypropyl)-N,N-dimethyl-, dichloride (9CI) (CA INDEX NAME)

●2 C1-

PAGE 1-B

L15 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2002 ACS

AN 1986:543568 HCAPLUS

DN 105:143568

TI Photosensitive polymer compositions

IN Yanagisawa, Kunio; Araki, Yasuhiko; Shobi, Hajime

PA Sekisui Chemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	1.1.1.01.1 1									
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE					
										
ΡI	JP 61025139	A2	19860204	JP 1984-146627	19840713					
	TP 03013582	R4	19910222							

The photosensitive polymer compns. contain (A) a photopolymerizable unsatd. monomer having >2 terminal ethylenic group, (B) photosensitizers, (C) a polymer contg. a OH-contg. component, and (D) a compd. contg. .gtoreq.2 amineimide groups. The component D is typically a compd. having the general formula Z(CO:N-N+R1R2R3)n (Z, R, R1, R2, R3 = aliph. or arom. group that may contain O, S, or N atoms; n .gtoreq.2) or its polymer. The compns. useful for prepn. of printing plates and printed circuits are flame-resistant, storage stable, and readily curable to form durable layers. Thus, a compn. contg. 5:95 .beta.-hydroxyethyl methacrylate-Me methacrylate copolymer 60, pentaerythritol triacrylate 30, benzophenone 3, Michler's ketone 0.5, p-methoxyphenol 0.5, and malonic acid bis[1,1-dimethyl-1-(2-hydroxypropyl)amineimide] 2 parts was dissolved in MEK and coated on a PET film. The obtained material was heat-laminated onto a Cu-laminated board, exposed to UV through a neg. original, sepd. from the PET film, developed with a 1,1,1-trichloroethane spray, and treated at 150.degree. for 10 min to obtain a fine protective pattern which was resistant to MEK, acetone, CHCl3, trichloroethylene, MeOH, 10% H2SO4, toluene, xylene, and pH 12 aq. NaOH (at 70.degree.). It was also resistant to 100 cycles of -65.degree. to 125.degree. treatment (each 1 h) and to 2 h dipping in a 260-270.degree. solder bath.

IT 104472-32-4

RL: USES (Uses)

(photosensitive polymer compns. contg. photopolymerizable ethylenic monomer and photosensitizer and hydroxo-contg. polymer and, for prepn. of photoresists and soldering masks and protective coatings and printing plates)

RN 104472-32-4 HCAPLUS

CN Hydrazinium, 2,2'-(1,4-dioxo-2-butene-1,4-diyl)bis[1-[2-hydroxy-3-(2-propenyloxy)propyl]-1,1-dimethyl-, bis(inner salt), (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-B

L15 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2002 ACS

AN 1980:585710 HCAPLUS

DN 93:185710

TI Synthesis and properties of bis(aminimides) containing ether linkages

AU Inokuma, Seiichi; Kameyama, Eiichi; Osawa, Takao; Kuwamura, Tsunehiko

CS Fac. Eng., Gunma Univ., Kiryu, Japan

SO Yukagaku (1980), 29(5), 354-5 CODEN: YKGKAM; ISSN: 0513-398X

DT Journal

LA Japanese

AB Several dibasic acid esters contg. oxyalkylene units (OCH2, OC2H4, unit no.; 1-5) were treated with aminimines derived from alkyl (C8-C12) glycidyl ethers and 1,1-dimethylhydrazine, giving a new series of bis(aminimides) with yields of 30-40%. The introduction of ether linkage caused a decrease in m.p. and Krafft point of the bis(aminimides). The lower members were more sol. in water and showed high surface activity, but the higher members were less sol. Cloud point and crit. micelle concn. of these surfactants decrease with increasing m. They were effective phase-transfer catalysts for aq. KI-octyl bromide two phase reaction. Their efficiency increases with increasing m. The efficiency of a higher member (m = 5) was much greater that that of dibenzo-18-crown-6 and was close to that of dicyclohexyl-18-crown-6.

TT 75315-99-0P 75316-00-6P 75316-01-7P 75316-02-8P 75316-03-9P 75316-04-0P 75316-05-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. and substitution reaction catalysis by)

RN 75315-99-0 HCAPLUS

CN 9,18,27-Trioxa-14,22-diaza-13,23-diazoniapentatriacontane, 11,25-dihydroxy-13,13,23,23-tetramethyl-15,21-dioxo-, bis(inner salt) (9CI) (CA INDEX NAME)

PAGE 1-B

OH
$$|$$
 $-$ CH $_2-$ CH $_2-$ CH $_2-$ CH $_2-$ O $_3-$ (CH $_2-$) 7 $_3-$ Me

RN 75316-00-6 HCAPLUS

CN 13,22,31-Trioxa-18,26-diaza-17,27-diazoniatritetracontane, 15,29-dihydroxy-17,17,27,27-tetramethyl-19,25-dioxo-, bis(inner salt) (9CI) (CA INDEX NAME)

PAGE 1-B

$$\begin{array}{c} & \text{OH} \\ & | \\ -\text{CH}_2-\text{CH-CH}_2-\text{O-(CH}_2)_{11}-\text{Me} \end{array}$$

RN 75316-01-7 HCAPLUS

CN 9,18,21,30-Tetraoxa-14,25-diaza-13,26-diazoniaoctatriacontane, 11,28-dihydroxy-13,13,26,26-tetramethyl-15,24-dioxo-, bis(inner salt) (9CI) (CA INDEX NAME)

O Me OH
$$| | - CH_2 - C - N - N + CH_2 - CH - CH_2 - O - (CH_2) 7 - Me$$
Me

75316-02-8 HCAPLUS RN

CN 13,22,25,34-Tetraoxa-18,29-diaza-17,30-diazoniahexatetracontane, 15,32-dihydroxy-17,17,30,30-tetramethyl-19,28-dioxo-, bis(inner salt) (9CI) (CA INDEX NAME)

OH N C-
$$CH_2$$
- CH_2

PAGE 1-B

75316-03-9 HCAPLUS RN

CN 13,21,24,27,35-Pentaoxa-18,30-diaza-17,31-diazoniaheptatetracontane, 15,33-dihydroxy-17,17,31,31-tetramethyl-19,29-dioxo-, bis(inner salt) (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

O Me OH
$$| | - CH_2 - C - N - N + CH_2 - CH - CH_2 - O - (CH_2)_{11} - Me$$
Me

RN 75316-04-0 HCAPLUS

CN 13,21,24,27,30,33,41-Heptaoxa-18,36-diaza-17,37-diazoniatripentacontane, 15,39-dihydroxy-17,17,37,37-tetramethyl-19,35-dioxo-, bis(inner salt) (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

RN 75316-05-1 HCAPLUS

13,36-Dioxa-18,31-diaza-17,32-diazoniaoctatetracontane,
15,34-dihydroxy-17,17,32,32-tetramethyl-19,30-dioxo-, bis(inner salt)
(9CI) (CA INDEX NAME)

- CH₂-O- (CH₂)₁₁-Me

L15 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2002 ACS

AN 1975:480451 HCAPLUS

DN 83:80451

TI Epoxy resin curing agents

IN Matsueda, Kanji; Noguchi, Saburo; Nakano, Yoshitomo

PA Permachem Asia, Ltd., Japan; Mitsubishi Petrochemical Co., Ltd.

SO Japan. Kokai, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	JP 50038796	A2	19750410	JP 1973-88806	19730809
	JP 55050488	B4	19801218		

- AB Epoxy resins contg. (dioxo-1,2-ethanediyl)bishydrazinium hydroxide inner salt with or without polycarboxylic anhydride have a good shelf life and are easily curable by heating. Thus, a mixt. of 100 parts Epikote 828 [25068-38-6] and 10 parts N,N''-(dioxo-1,2-ethanediyl)bis[1-(2-hydroxypropyl)-1,1-dimethylhydrazinium hydroxide inner salt] [52723-33-8] was stable for >2 months at 40.degree. and cured in 30 min at 155.degree. and in 10 min at 185.degree. Similarly used were N,N''-(dioxo-1,2-ethanediyl)bis[1-(2-hydroxy-3-phenoxypropyl)-1,1-dimethylhydrazinium hydroxide inner salt] [52723-35-0] and 3 other curing agents.
- RN 52723-35-0 HCAPLUS
- CN Hydrazinium, 2,2'-(1,2-dioxo-1,2-ethanediyl)bis[1-(2-hydroxy-3-phenoxypropyl)-1,1-dimethyl-, bis(inner salt) (9CI) (CA INDEX NAME)

- L15 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2002 ACS
- AN 1974:521812 HCAPLUS
- DN 81:121812
- TI Epoxy resin compositions of long pot life
- IN Matueda, Kanji; Niino, Hideki; Nakano, Yoshitomo
- PA Permachem Asia, Ltd.; Mitsubishi Petrochemical Co., Ltd.

Ger. Offen., 31 pp.

CODEN: GWXXBX

DT Patent

LA German FAN.CNT 1

1111	0111 1				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
					
PI	DE 2357121	A1	19740530	DE 1973-2357121	19731115
	DE 2357121	C3	19781221		
	JP 49074799	A2	19740718	JP 1972-115704	19721120
	JP 55050050	B4	19801216		
	US 3888827	Α	19750610	US 1973-416667	19731116
	GB 1423270	Α	19760204	GB 1973-53737	19731120
PRAI	JP 1972-115704		19721120		,

Thermosetting epoxy resin-hardener compns. of long pot life for, e.g., AB adhesives and coatings consisted of e.g. Epikote 828 (I) [25068-38-6] and aminimide (RCON-N+R1R2R3) hardeners, e.g. BzN-N+Me2CH2Ph (II) [52723-43-0], optionally in combination with hexahydrophthalic anhydride (III) [85-42-7]. Thus, 10 parts II was dispersed in 100 parts I to give a mixt. of pot life >1 month and gelling time >8 hr at 100.deg.. Hardening this mixt. 5 hr at 150.deg. gave a product of flexural strength (JIS-K 6911) 1050 kg/cm2 and deflection temp. (JIS-K 6714) 82.deg..

IT52723-34-9 52723-35-0 52723-36-1

> RL: MOA (Modifier or additive use); USES (Uses) (crosslinking agents, for epoxy resins)

52723-34-9 HCAPLUS

CN4,17-Dioxa-9,12-diaza-8,13-diazoniaeicosa-1,19-diene, 6,15-dihydroxy-8,8,13,13-tetramethyl-10,11-dioxo-, bis(inner salt) (9CI) (CA INDEX NAME)

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- CH₂- CH= CH₂

RN 52723-35-0 HCAPLUS

CN Hydrazinium, 2,2'-(1,2-dioxo-1,2-ethanediyl)bis[1-(2-hydroxy-3phenoxypropyl)-1,1-dimethyl-, bis(inner salt) (9CI) (CA INDEX NAME)

RN 52723-36-1 HCAPLUS

CN 4,17-Dioxa-9,12-diaza-8,13-diazoniaeicosa-1,19-diene, 6,15-dihydroxy-2,8,8,13,13,19-hexamethyl-3,10,11,18-tetraoxo-, bis(inner salt) (9CI) (CA INDEX NAME)

L15 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2002 ACS

AN 1973:167017 HCAPLUS

DN 78:167017

TI Bisaminimides as antistatic agents for photographic film

IN Ishihara, Masao; Wada, Tsuneo; Yamaguchi, Hisashi; Sugita, Sadao

PA Konishiroku Photo Industry Co., Ltd.

SO Ger. Offen., 32 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 2

T 1-714 * A	CN1 Z				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2162804	Α	19720817	DE 1971-2162804	19711217
•	JP 49000064	B4	19740105	JP 1970-113102	19701213
PRAT	JP 1970-113102		19701218		

Bisaminimides R2CON-N+R1R3-QN+R4R5N-COR6 (I), R1R2R3N+N-COQCON-N+R4R5R6 (II), and R1R2R3N+N-COQN+R4R5N-COR6 (R1, R3, R4, R5 = alkyl; R2, R6 = alkyl, aralkyl, aryl, or heterocycle) are excellent antistatic agents for photog. materials which have no undesirable side reactions when applied in amts. of 0.1-1000 mg/m2. Thus, the coating of I (R1, R3, R4, R5 = Me; R2, R6 = C15H31; and Q = -(CH2)4- at 2.6 mg/m2 of emulsion decreased the sp. surface resistance of a high-sensitivity x-ray film from 1014 to 1012 .OMEGA..

IT 41611-69-2

RL: USES (Uses)

(antistatic agent, for photog. films)

RN 41611-69-2 HCAPLUS

CN Hydrazinium, 2,2'-(1,6-dioxo-1,6-hexanediyl)bis[1-[2-hydroxy-3-(4-octylphenoxy)propyl]-1,1-dimethyl-, bis(inner salt) (9CI) (CA INDEX NAME)

$$- \begin{array}{c} \text{OH} \\ - \text{CH} - \text{CH}_2 - \text{O} \\ \end{array}$$

L15 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2002 ACS

AN 1972:546259 HCAPLUS

DN 77:146259

TI Antistatic bishydrazinium salts for photography

IN Ishihara, Masao; Wada, Tsuneo; Yamaguchi, Hisashi; Sugita, Sadao

PA Konishiroku Photo Industry Co., Ltd.

SO Ger. Offen., 30 pp. CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	DE 2162805	Α	19720727	DE 1971-2162805	19711217
	JP 48043809	B4	19731220	JP 1970-113103	19701218
	US 3794495	Α	19740226	US 1971-208891	19711216
	GB 1374779	Α	19741120	GB 1971-58663	19711217
PRAI	JP 1970-113103		19701218		

AB Color radiog. Ag halide recording materials contg. bisacylhydrazinium salts have excellent resoln. and graininess and improved image tone. Desirable side effects are a decrease in fog and an increase in the storage stability of the recording material.

IT 38660-37-6

RL: USES (Uses)

(antistatic agent, for photography)

RN 38660-37-6 HCAPLUS

CN Hydrazinium, 2,2'-(1,6-dioxo-1,6-hexanediyl)bis[1-[2-hydroxy-3-(4-octylphenoxy)propyl]-1,1-dimethyl-, dibromide (9CI) (CA INDEX NAME)

●2 Br-

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